

FIG. 1

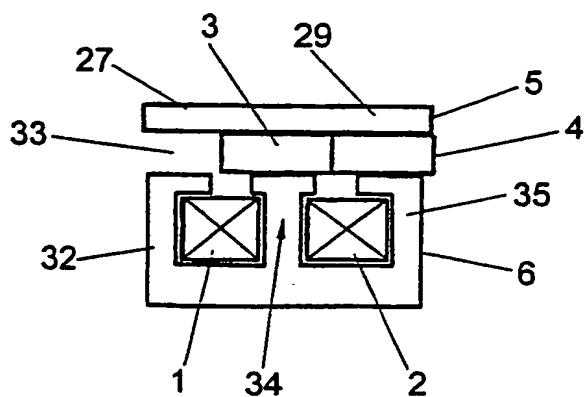


FIG. 2

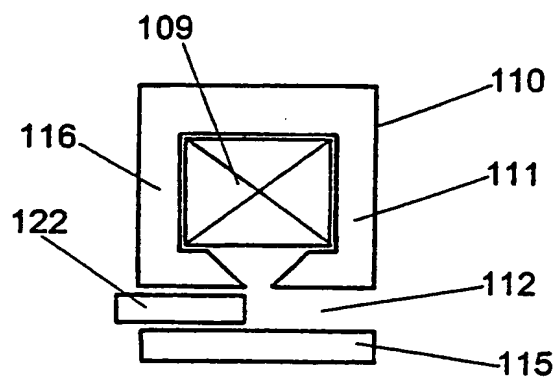


FIG. 3

FIG. 4

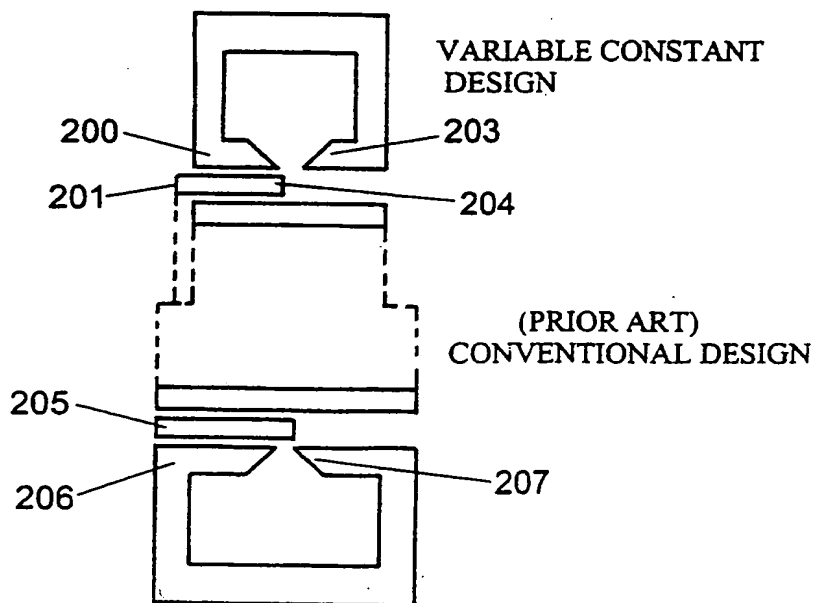


FIG. 5

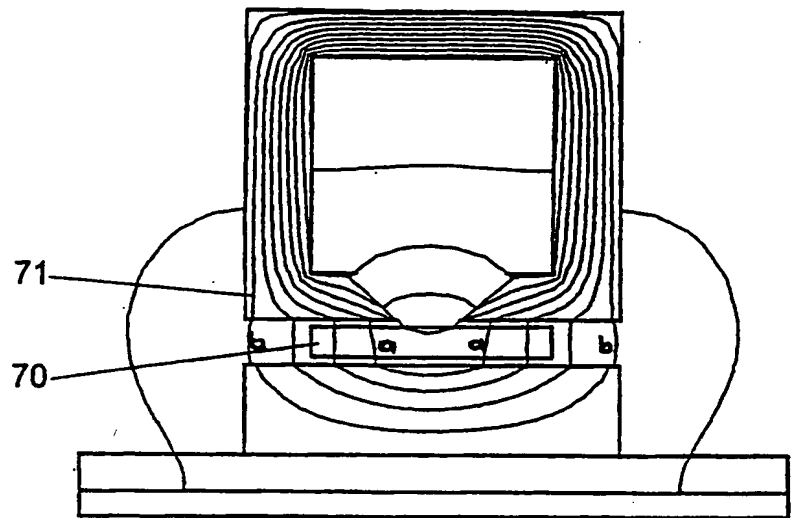
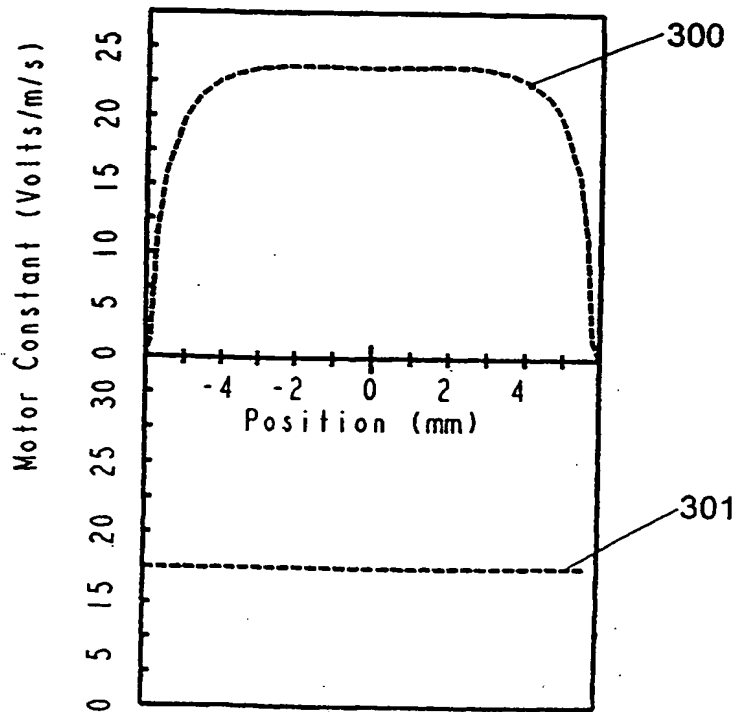


FIG. 6



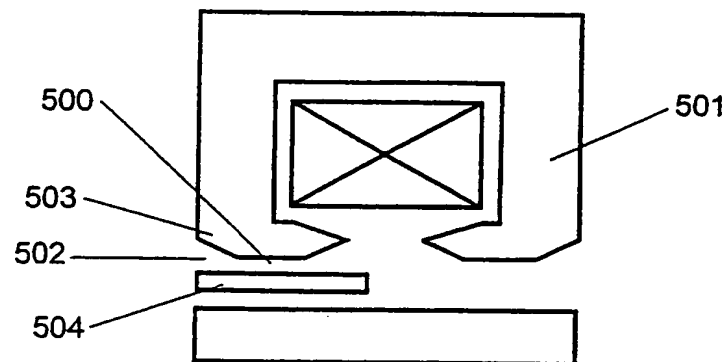


FIGURE 7

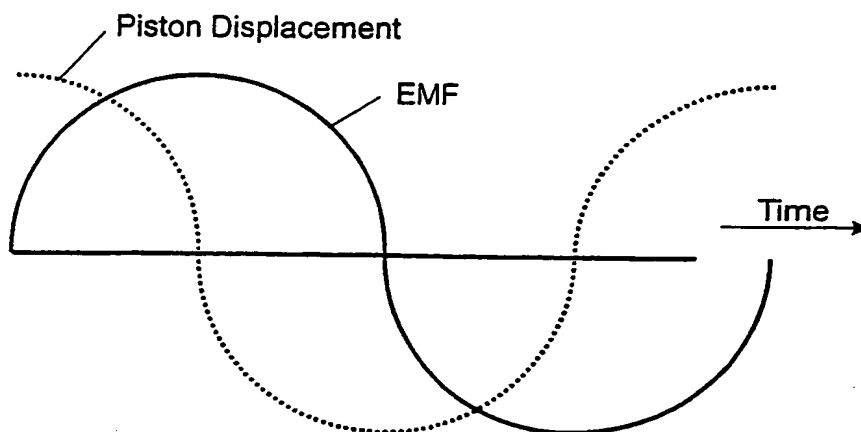


FIGURE 8a
Motor EMF and Displacement Waveforms

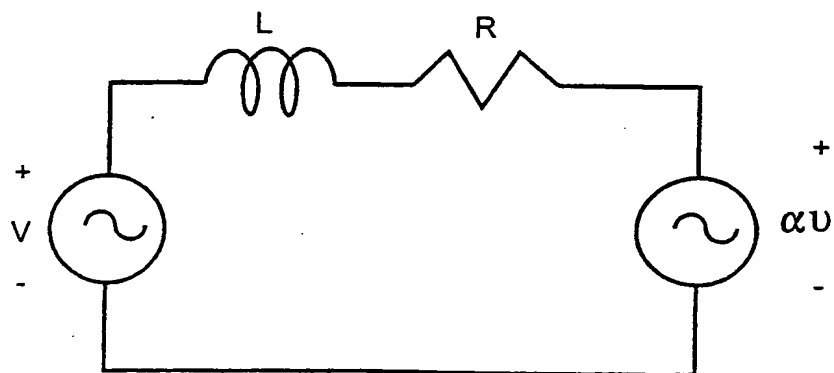


FIGURE 8b
Motor Equivalent Circuit

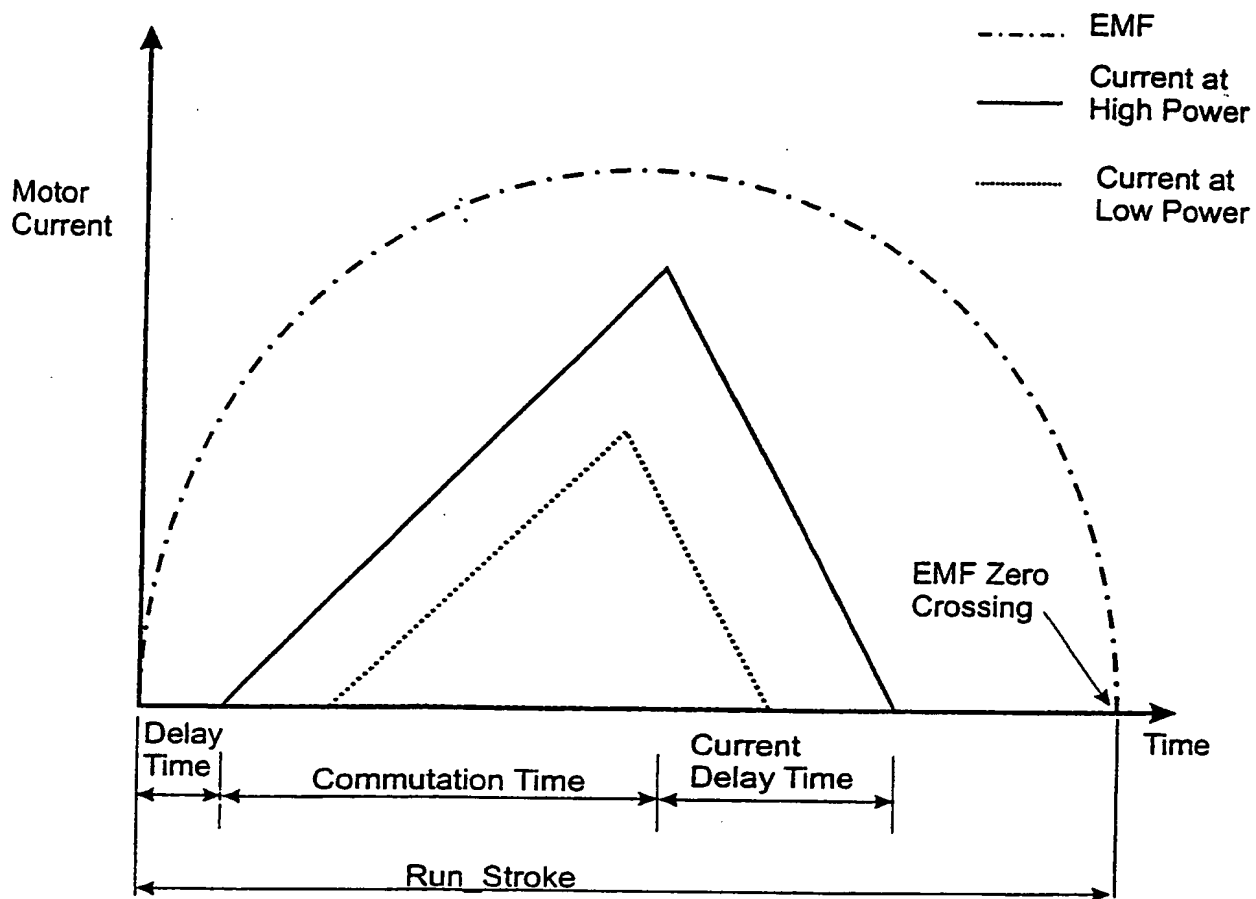


FIGURE 15
Motor Current Waveform and Timing

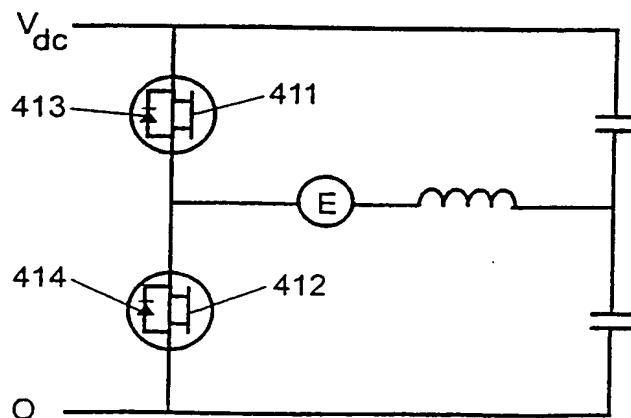


FIGURE 9



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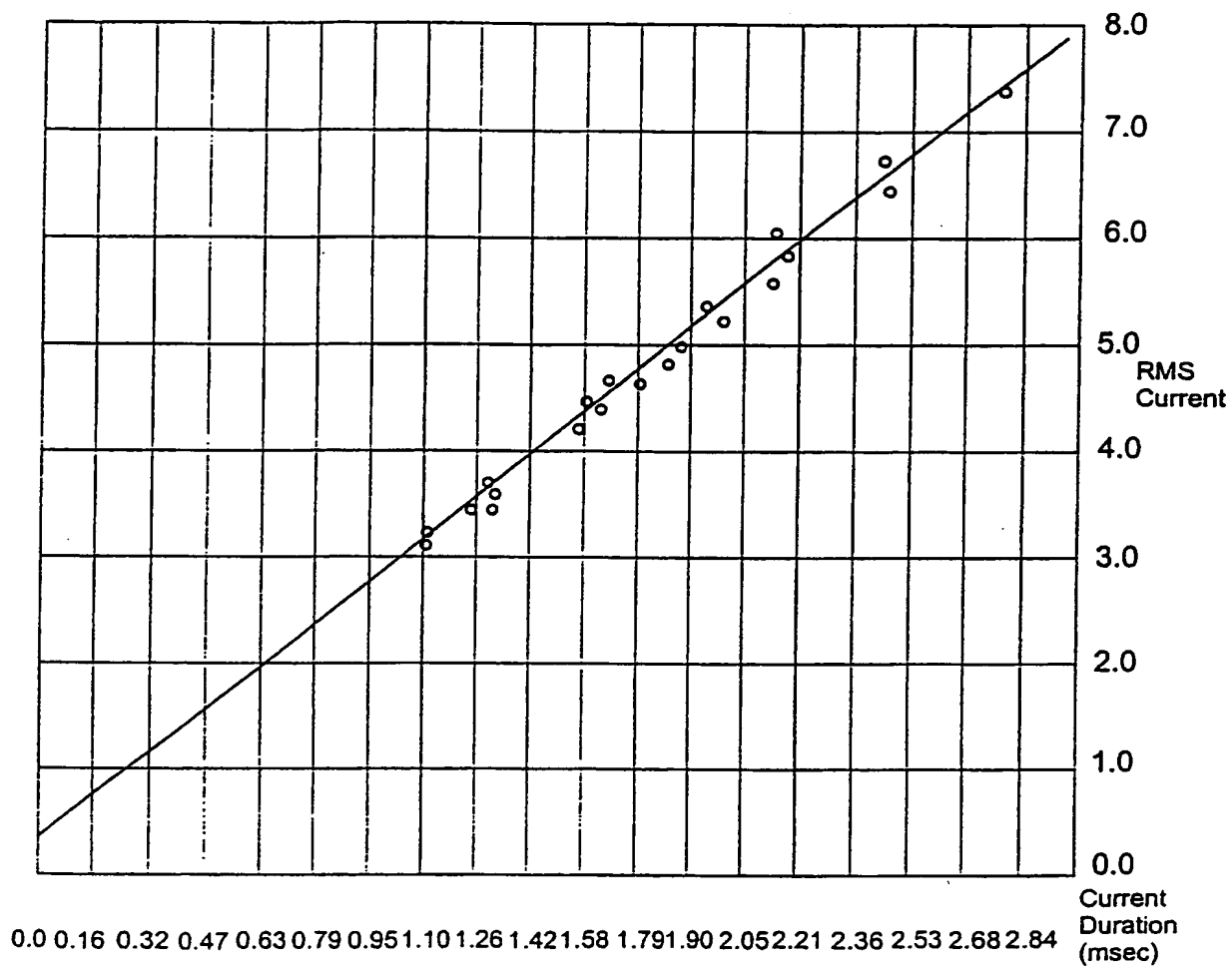


FIGURE 12

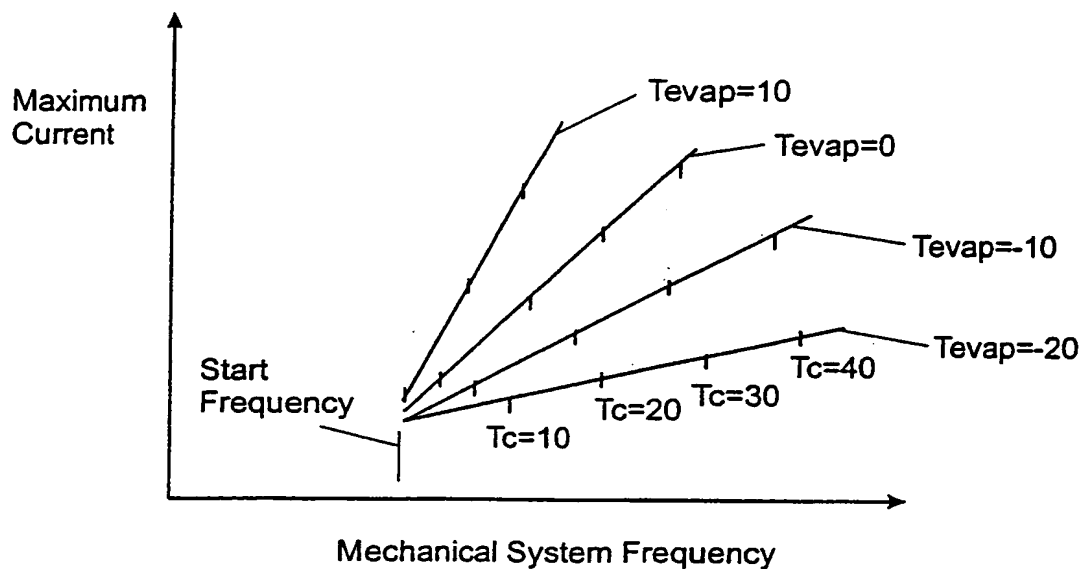


FIGURE 10

Maximum Current as a function of Evaporation Temperature and Frequency

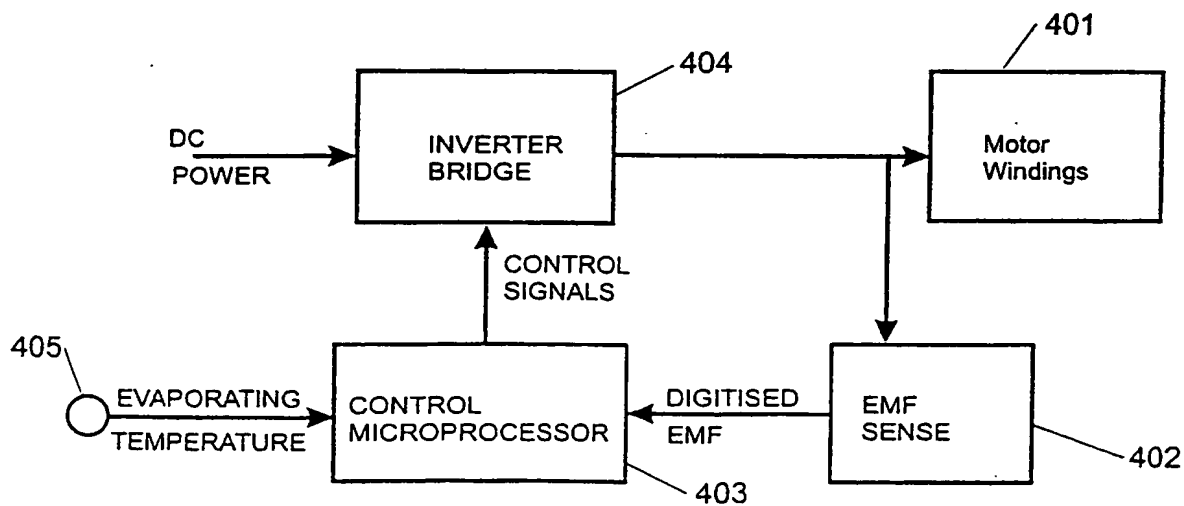


FIGURE 11

Block diagram of the motor control circuit

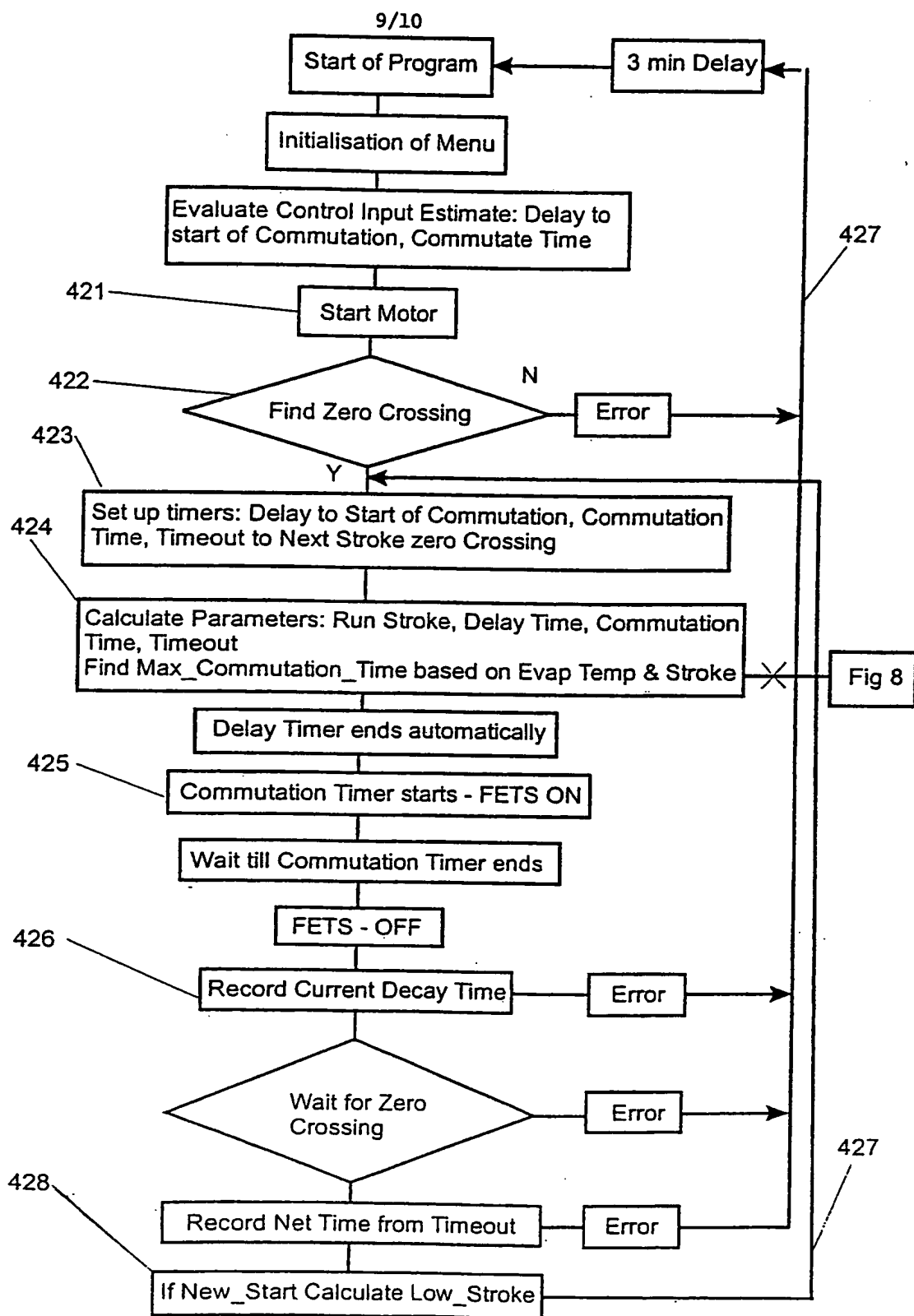


FIGURE 13

Control Microcomputer Motor Control Timing Flow Chart

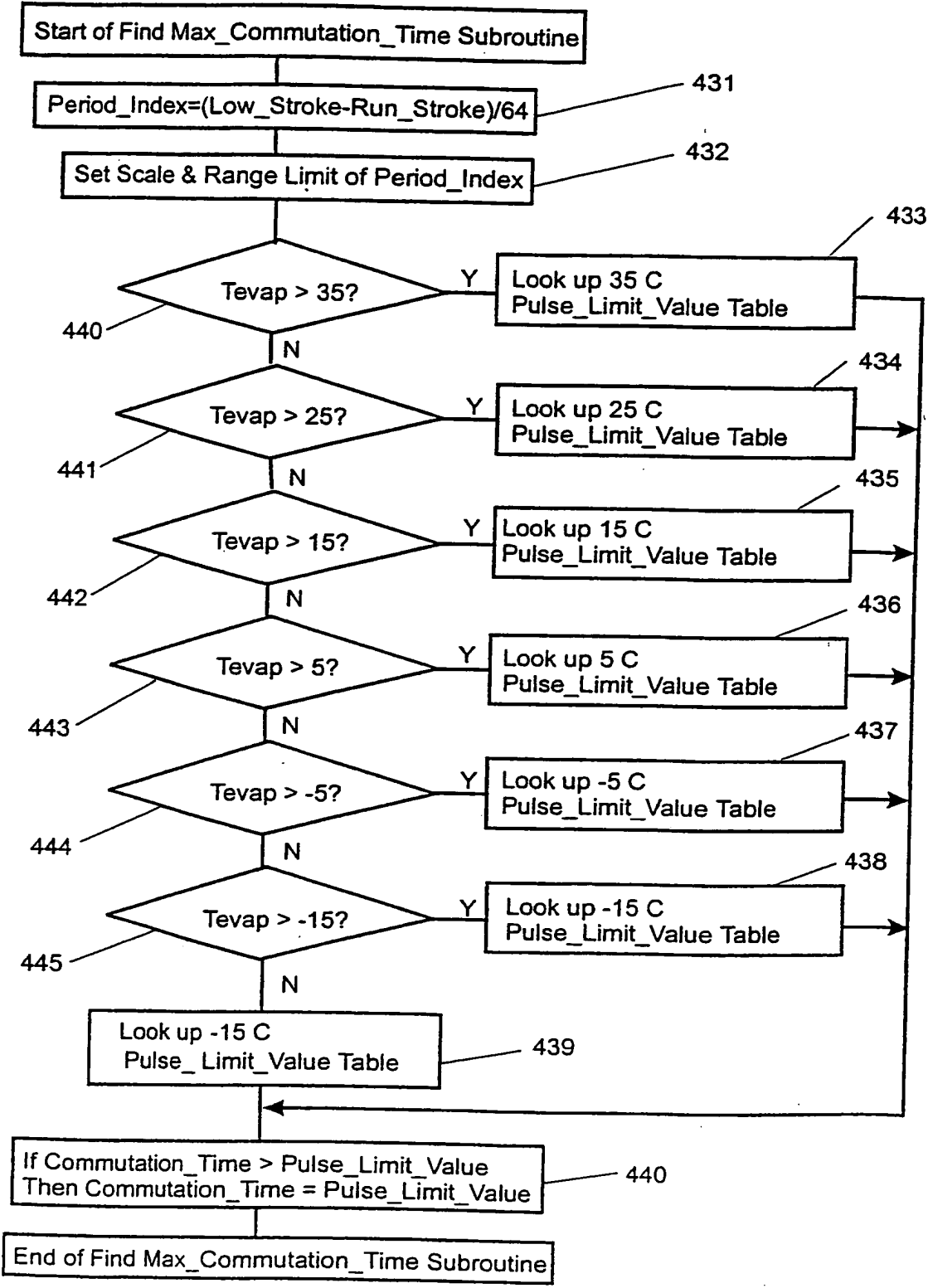


FIGURE 14

Calculation of Commutation Time Limit based on Evap Temp & Stroke Time